

# 1-1 Practice

## Points, Lines, and Planes

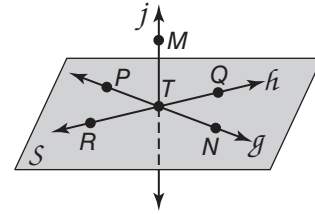
Refer to the figure.

1. Name a line that contains points  $T$  and  $P$ .

**Line  $g$ ,  $\overleftrightarrow{TP}$ ,  $\overleftrightarrow{TN}$ ,  $\overleftrightarrow{NP}$**

2. Name a line that intersects the plane containing points  $Q$ ,  $N$ , and  $P$ .

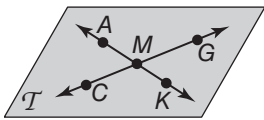
**Line  $j$  or  $\overleftrightarrow{MT}$**



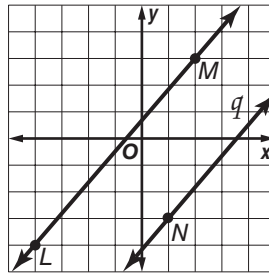
3. Name the plane that contains  $\overleftrightarrow{TN}$  and  $\overleftrightarrow{QR}$ . **Sample answer: plane  $S$**

Draw and label a figure for each relationship. Sample answers are given.

4.  $\overleftrightarrow{AK}$  and  $\overleftrightarrow{CG}$  intersect at point  $M$  in plane  $T$ .

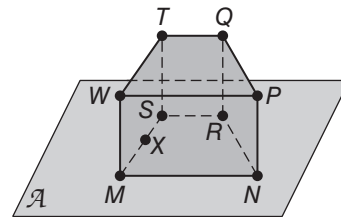


5. A line contains  $L(-4, -4)$  and  $M(2, 3)$ . Line  $q$  is in the same coordinate plane but does not intersect  $\overleftrightarrow{LM}$ . Line  $q$  contains point  $N$ .

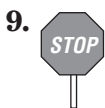


Refer to the figure.

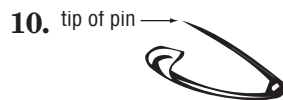
6. How many planes are shown in the figure? **6**
7. Name three collinear points. **S, X, M**
8. Are points  $N, R, S,$  and  $W$  coplanar? Explain.  
**No; sample answer: points  $N, R,$  and  $S$  lie in plane  $\mathcal{A}$ , but point  $W$  does not.**



**VISUALIZATION** Name the geometric term(s) modeled by each object.



**plane and line**



**point**



**lines segments**

12. a car antenna  
**line and point**

13. a library card  
**plane**